

KEISHA TRAJANO

COMPUTER SCIENCE

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SUMMARY

Computer Science student majoring in Software Technology with experience across full-stack web development, secure application design, and database systems. Seeking a cybersecurity or software development internship where I can apply hands-on skills in authentication, access control, and backend engineering.

PROFESSIONAL EXPERIENCE

Assistant Technology Specialist, The Church of Jesus Christ of Latter-Day Saints Jan 2023- Present

- Assists with the increasing use and availability of meetinghouse broadcasting technologies.
- Assists in setting up technologies that will be used in activities.

QA Tester, SplitmediaLabs Philippines Mar 2019 - Jun 2019

- Reviewed and classified visual assets for VCAM's final release build, contributing to QA and production readiness.

HR & Admin Intern, SplitmediaLabs Philippines Mar 2018 - Jun 2018

- Organized and maintained personnel records for 50+ employees and contractors, ensuring compliance with HR filing standards.

Junior Web Developer Intern, SplitmediaLabs Philippines Mar 2017 - Jun 2017

- Built and maintained live streaming overlay components for XSplit, improving visual consistency across broadcast layouts.

EDUCATION

Bachelor of Science in Computer Science major in Software Technology Sep 2021 - Present
De La Salle University

IT in Mobile App and Web Development Jun 2017 - Mar 2021
STI College Ortigas - Cainta

PROJECTS

Secure Payroll Web Application

De La Salle University

- Implemented **role-based access control (RBAC)** for Admin, Manager, and Employee roles using centralized Express.js middleware enforcing least-privilege access
- Secured passwords using Node.js **crypto.scrypt** with salted hashing, history enforcement, and brute-force lockout after 5 failed attempts
- Built a **MongoDB audit logging system** capturing authentication and authorization events; suppressed stack traces and implemented custom error pages to prevent information disclosure
- Produced security documentation covering 30+ controls, an access control matrix, and 60+ test cases across authentication, authorization, and data validation

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Flight Booking System

De La Salle University

- Designed and implemented a relational database using **PostgreSQL** with **Write-Ahead Logging (WAL)** archiving and hot standby for fault tolerance and data reliability
- Containerized the environment using **Docker** for consistent, portable deployment; used SQL and **OLAP** techniques for transactional queries and analytical reporting.

Gaming Community Website

De La Salle University

- Built a full-stack gaming community platform with dynamic content rendering and MongoDB-backed data storage using Node.js, Express, and Handlebars.

Chatbot System

De La Salle University

- Built a hybrid chatbot combining a Prolog rule engine for structured dialogue with a machine learning model to improve response accuracy and interaction flow

Client-Server Application

De La Salle University

- Designed a client-server architecture using gRPC for efficient remote procedure calls and integrated Tesseract OCR for text recognition, built in C++ with CMake and Qt

TaftBites Mobile Application

De La Salle University

- Developed an Android food discovery and ordering app in Java, implementing core UI and application features using Android Studio

Vending Machine System

De La Salle University

- Built a vending machine simulation in Java applying OOP principles — encapsulation, inheritance, and polymorphism — through a modular, extensible class hierarchy

UI/UX Website Prototype

De La Salle University

- Designed high-fidelity Figma prototypes following UX research principles — incorporating wireframes, accessibility guidelines, and user flow testing

Business Data & Analytics Project

De La Salle University

- Analyzed business datasets using Python (pandas, matplotlib) to produce BI reports with actionable metrics for planning and decision support
- Applied data cleaning and transformation techniques to convert raw data into structured reporting outputs aligned with business strategy goals

TECHNICAL SKILLS

Languages: C, C++, Java, Python, JavaScript, SQL, Prolog

Web & Backend: Node.js, Express.js, HTML/CSS, MongoDB, PostgreSQL, REST APIs

Security: RBAC, Cryptographic Hashing (scrypt), Audit Logging, Input Validation

Tools & Platforms: Git, Docker, Android Studio, Figma, Wireshark, Cisco

Data & Analytics: Python (pandas, matplotlib), SQL (OLAP), Business Intelligence